04 - NAP - 29, PM 37.03 20.10.201.111 EA 3G640K E-FIS 0412000134 September 2011

PROJECT SCOPE SUMMARY REPORT (STRUCTURE REHABILITATION)

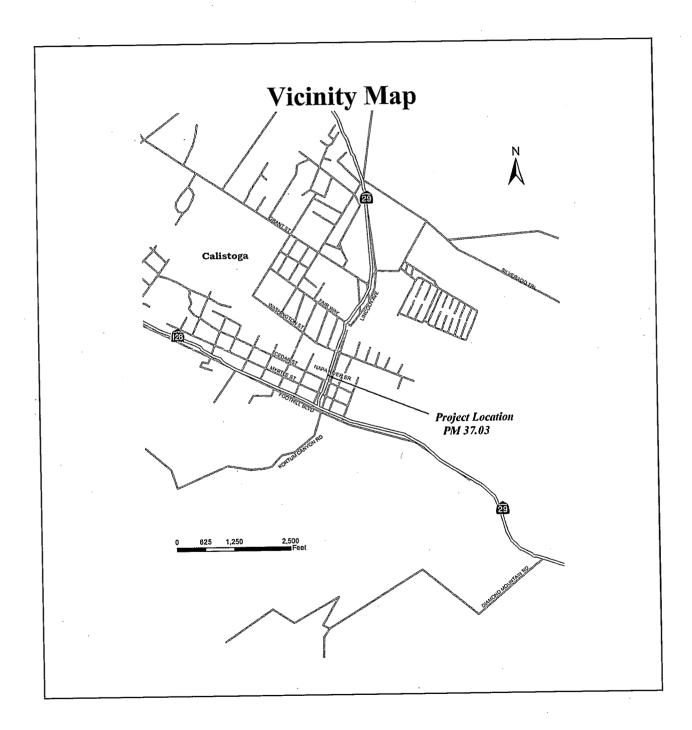
To

Request Programming in the 2012 SHOPP

On Route 29 in Napa County in Calistoga at Napa River Bridge (#21-0018)

I have reviewed the right of way information contained in this Project Scope Summary Report and the R/W Data Sheet attached hereto, and find the data to be complete, current

and accurate: MARK L. WEAVER DEPUTY DISTRICT DIRECTOR – RIGHT OF WAY AND LAND SURVEYS	
APPROVAL RECOMMENDED: (C) (L) (
APPROVED: Jia Sak 9/27/11 BIJAN SARTIFI DISTRICT DIRECTOR DATE	ille.



On Route 29 in Napa County in Calistoga at Napa River Bridge (#21-0018)

This Project Scope Summary Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

STEWART LEE - REGISTERED CIVIL ENGINEER

DATE

PROFESSIONAL CONTROL OF CONTROL O

Table of Contents

1.	INTRODUCTION AND BACKGROUND	5
2.	RECOMMENDATION	5
3.	PURPOSE AND NEED STATEMENT	6
4.	EXISTING FACILITY, DEFICIENCIES AND TRAFFIC DATA	6
5.	CORRIDOR AND SYSTEM COORDINATION	8
6.	ALTERNATIVES	. 8
7.	TRANSPORTATION MANAGEMENT	12
	ENVIRONMENTAL DETERMINATION/DOCUMENT	
9.	FUNDING/SCHEDULING	13
	FEDERAL COORDINATION	
11.	SCOPING TEAM FIELD REVIEW ATTENDANCE ROSTER:	15
	REVIEWS	
13.	ATTACHMENTS	16

1. INTRODUCTION AND BACKGROUND

This project proposes to replace Napa River Bridge # 21-0018, on State Route (SR) 29, in Napa County. This two span bridge was originally built in 1919 as a reinforced concrete (RC) "T" Beams (6 girders) structure on RC pier and masonry abutments. In 1952, it was widened on both sides with "T" Beams (3 girders on NB, 5 girders on SB) on RC abutments and pier. Entire structure is on spread footings. It has sidewalks in both directions with steel baluster rails. The current width from edge-of-deck to edge-of-deck is approximately 72'-10" and the length is approximately 62'-4".

The proposed two-span bridge is a voided reinforced concrete slab structure. The length and width would match the existing dimensions above. The width accommodates one travel lane in each direction and wide outside shoulders for bus stops in each direction. The bridge rails are proposed to be Type 80SW on both sidewalks (minimum 5'). Retaining walls (total 4) adjacent to bridge are proposed to be replaced.

See the Cost Estimate for specific work items included in this project.

	04 NI 20 27 02
Project Limits	04, Napa, 29, 37.03
[Dist., Co., Rte., PM]	
Capital Costs:	\$8,238,000
Right of way Costs:	\$674,000
Funding Source:	2012 SHOPP Program
	201.111
Number of Alternatives:	1
Recommended Alternative	1
(for programming and	
scheduling):	
Type of Facility	Conventional highway
(conventional, expressway,	
freeway):	
Number of Structures:	1 bridge and 4
	retaining walls
Anticipated	Initial Study/Negative
Environmental	Declaration,
Determination/Document:	Categorical Exclusion
Legal Description	Scour replace bridge

2. RECOMMENDATION

It is recommended that this PSSR be approved with the preferred alternative and that the project be programmed in the 2012 SHOPP.

3. PURPOSE AND NEED STATEMENT

Need:

According to the latest Bridge Inspection performed on 4/17/09, it has determined that this bridge needs to be replaced because of all the scour, spalls and cracks. There are longitudinal cracks in the AC deck surface and spalls with exposed reinforcements in girders at several locations. There is a large scour hole at Pier 2 location. From the Hydraulics report dated 05/29/02, it was determined that this structure to be scour critical. Furthermore, this structure has a history of settlement; Pier 2 is unstable for the calculated scour conditions. See Attachment E.

Purpose:

This project would improve safety to the public and maintenance workers and improve structural integrity and life span of the bridge.

4. EXISTING FACILITY, DEFICIENCIES AND TRAFFIC DATA

4A. Roadway Geometric Information

	Facility (1)	Through Traffic Lanes (2)			Faved Shoulder Width (3)		Median (4)	Shoulder is a Bicycle Lane (Y/N) (5)	Other Bicycle Lane Width (6)	Bicycle Route (7)	Facilities Adjacent to the Roadbed (8)
	Location	No. of Lanes	Lane Width	Type (Flex, Rigid, or Composite))	Left	Right	Width	Width	Width	(Y/N)	(Code/Width)
Existing	37.03	2	12'	Rigid	17.7'	17.7'	0	N	NA	N	P
Proposed	37.03	2	12'	Rigid	17.7'	17.7'	0	N	NA	N	P

Code for Column "Facilities Adjacent to the Roadbed":

P: Pedestrian Walkway

4B. Condition of Existing Facility (Repeat info for each homogeneous segment):

(1) Pedestrian Facility Data

Facility Type and Location(s)	Meets ADA Standards?	If Facility does not meet ADA Standards, what feature(s) are not ADA compliant?	Status of Each Noncompliant Location
Sidewalks:	Yes		All ADA features would be built to standards within project limits.
Curb Ramps:	Yes		All ADA features would be built to standards within project limits.
Crosswalks:	Yes		All ADA features would be built to standards within project limits.
Driveways:	NA		
Shared bicycle/ pedestrian path:	NA NA		
Others:	NA .		

4C. Structures Information

	Structures	Width	n Between	Curbs	Replace Bridge Railings	Vertical Clearance			Work Identified in STRAIN	Replace Bridge Approach Rail	Repla Brid Appro Sla	ge ach
	Name/No.	Exist	3R Std	Prop	(Y or N)	Exist	3R Std	Prop	(Y or N)	(Y or N)	(Y/N)	#
٦.	Napa River	59'	40'	59.33	Y	NA	NA	NA	Y	Y	N	0
.~	Bridge/21- 0018					e en			e			

4D. Vehicle Traffic Data

Present Year ADT (2011) 8,900

Construction Year (2018) ADT 9,600

10-Year ADT (2028) 10,400

DHV 1,030

20-Year ADT (2038) 11,300

D <u>54.5%</u>

% Trucks <u>4.11%</u>

*T.I. (10-Year) <u>8.0</u>

ESAL (10-Year) <u>355,000</u>

*T.I. (20-Year) 8.5

ESAL (20-Year) 746,000

Safety Field-Review 8/23/11

Latest 3-Year Accident Data:

	Number of Accidents/Significance Accident Rate (acc/mvm*))														
Location	Total	Fat	Inj	Wet	Wet Dark		Actual			Average														
	Total	rai	пñ	Wet Dai	WEL	W 61	W 61	wet	WEL	WEL	WEL	WEL	WEL	WEL	WEL	WEL	WEL	Dark	Fat	F+I	Total	Fat	F+I	Total
Nap 29 - PM																								
36.9/37.1	5	0	0	0	1	0.00	0.00	1.08	0.02	0.62	1.55													

acc/mvm = accidents per million vehicles miles of traffic, F = Fatality, I = Injury

Location(s) of Accident Concentration: <u>Since the project is a spot location, it is</u> not listed as a location of accident concentration.

Corrective Strategy: <u>The bridge would be designed to the latest highway design</u> standards.

5. CORRIDOR AND SYSTEM COORDINATION

SR 29 in District 04 is a 54.5 mile corridor that traverses Napa and Solano Counties from Interstate 80 in the south to Lake County in the north. The corridor links the City of Vallejo with American Canyon, Napa, and the smaller towns of the Napa Valley region in the northern area of Napa County.

The Governor's Strategic Growth Plan 2006 (SGP) calls for an infrastructure improvement program that includes a major transportation component (Go California). The SGP is based on the premise that investments in mobility throughout the system will yield significant improvements in congestion relief. The District is developing a Corridor Plan for SR 29, but it does not anticipate any significant changes in the project area. This project is consistent with earlier State planning efforts.

The Napa County Transportation Plan is currently being updated, but the existing plan does not anticipate any significant changes in the project area. The *Wine Country Interregional Partnership Study*, a Caltrans-sponsored study, focuses on transportation issues related to the interaction between the North Bay counties (Mendocino, Lake, Sonoma, and Napa).

6. ALTERNATIVES

6A. Rehabilitation Strategy:

Because the existing Napa River Bridge is scour critical, the proposed strategy is to replace the bridge.

Existing two lanes of traffic (1 NB, 1 SB) would be maintained throughout construction. See Attachment D.

Stage One: Remove portion of existing southbound sidewalk to accommodate traffic shift.

Stage Two: Shift traffic onto existing southbound; remove the entire 1919 bridge and the 1952 portion of northbound; and construct portion of new bridge.

Stage Three: Shift traffic onto the new bridge; remove the remaining existing bridge; construct remaining portion of new bridge and connect with closure pour.

6B. Design Exceptions:

No design exceptions are anticipated.

6C. Environmental Compliance:

It is anticipated that an Initial Study/Negative Declaration will be needed to meet the requirements of the California Environmental Quality Act (CEQA). The anticipated documentation to meet requirements of the National Environmental Policy Act (NEPA) would be Categorical Exclusion. See Attachment G.

6D. Hazardous waste disposal site required? If yes, where are sites?

Before demolition of the existing bridge, a bridge survey will be necessary to identify any lead-based paint or asbestos-containing materials. If the scope of work involves soil excavation in the bridge approaches, a subsurface investigation might be necessary to assess possible surplus soil. As part of the Hazardous Waste Site Investigation, ground water testing may be required to determine if it is contaminated to develop contract provisions for its handling and disposal during construction. During the next phase, any other hazardous waste issues would be further investigated.

6E. Other Agencies Involved (Permits/Approvals from Fish & Game, Corps of Engineers, Coastal Commission, etc.):

This project will require Section 401 CWA Certification from the Regional Water Quality Control Board (RWQCB) since work will be performed within Napa River and National Pollutant Discharge Elimination System (NPDES) Permit (402) Coordination. Permits from the US Army Corps of Engineers and Fish and Game (1602) will also be required.

6F. Materials and or disposal site needs and availability?

This information is expected to be available in the PS&E phase. Per Caltrans Standard Specifications Section 7-1.13, if materials are to be disposed of and the Department has not made arrangement for disposal of the materials, the Contractor shall make arrangements for disposal of the materials outside the State right of way.

6G. Highway planting and irrigation:

Detail plans for highway planting and irrigation would be prepared during the PS&E phase. Estimated cost is included in the project cost estimate.

6H. Roadside Design and Management:

Not applicable

6I. Stormwater Compliance:

Since the project includes work in Napa River, permits from the U.S. Army Corps of Engineers and/or Department of Fish & Game will be required. Since the project has the potential to encounter groundwater in the structure excavations, which may involve non-storm water discharges, early discussion would be initiated with the Office of Water Quality regarding the handling and disposal of this water. A project-specific Waste Discharge Permit (WDP) may be required from the RWQCB.

The project involves approximately less than one acre of ground disturbance, and complies with the State Water Resources Control Board (SWRCB) issued Statewide Construction General Permit (Order No. 98-08-DWO, National Pollutant Discharge Elimination System ((NPDES) Order No.: CAS000002) for storm water discharges associated with construction activity. This applies to all storm water discharges from construction sites where clearing, grading, stockpiling, and/or excavation result in soil disturbances of 1.0 acre or greater. Construction activity that results in soil disturbances of less than 1.0 acre is also subject to the Construction General Permit if the construction activity is part of a larger Common Plan of Development totaling 1.0 acre or more of soil disturbing activities, or if there is potential for significant water quality impairment resulting from the activity, as determined by the RWQCB. All projects that are subject to the Construction General Permit require a Storm Water Pollution Prevention Plan (SWPPP), and a Water Pollution Control Program (WPCP). A Storm Water Data Report (SWDR) has also been prepared for this project which summarizes action taken in compliance with the permit. A signed SWDR Long Form signature sheet is included in Attachment H.

Pursuant to the scope of this project and in accordance with the Department's

NPDES and Construction General Permits, Best Management Practices (BMPs) Best Management Practices (BMPs) would need to be implemented to address the temporary water quality impacts resulting from the construction activities in the project. BMPs will include the measures of soil stabilization, sediment control, wind erosion control, tracking control, non-storm water management, and waste management/materials pollution control to the Maximum Extent Practicable (MEP). Department-approved Treatment BMPs include biofiltration strips/swales, infiltration basins, detention basins, media filters, and multi-chamber treatment trains.

Groundwater may be encountered during the deep excavations for the bridge footings. If significant amount of groundwater will be encountered, dewatering may be required.

Because the project has works in water bodies, Temporary Creek Diversion System may be required. Early discussion with Water Pollution Control Branch is required for Temporary Creek Diversion System.

Typical erosion control measures include permanent vegetation in the form of erosion control seeding, erosion control netting and fiber rolls.

6J. Right of Way:

A Right of Way Data Sheet has been prepared based on the scope of the work described and is included in Attachment C. Temporary construction easements are needed. Potholing of existing utility facilities may be required. Relocation of utilities would be required because there are existing utilities attached to the bridge.

This bridge, the gateway to downtown Calistoga, is situated with business buildings surrounding it, with the nearest building just 10 feet from the existing abutment wall. Another instance, at one abutment, a wall, proposed to be replaced, is retaining a patio to a restaurant. Accesses to these businesses would be impacted, especially during the excavation and construction of the foundations. Easements are needed for building temporary shoring and tie-back walls; tie-backs would encroach beyond existing State right of way.

During the demolition and excavation of the foundation, nearby buildings would have to be closely monitored at all times.

6K. Railroad Involvement:

There is no railroad involvement in this project.

6L. Salvaging and recycling of hardware and other non-renewable resources:

Any existing materials deemed salvageable would be salvaged to the extent possible.

6M. Prolonged temporary ramp closures:

Not applicable

6N. Recycled Materials:

Any materials deemed recyclable would be recycled to the extent possible.

60. Local and Regional Input:

Bicyclists must be accommodated during construction by providing "Share the Road" signs plus "Bicycle Crossing" signs to alert motorists of the presence of cyclists in the narrowed travel lanes.

6P. What are the consequences of not doing this entire project?

According to the latest Bridge Inspection performed on 4/17/09, it has determined that this bridge needs to be replaced because of all the scour, spalls and cracks. There are longitudinal cracks in the AC deck surface and spalls with exposed reinforcements in girders at several locations. There is a large scour hole at Pier 2 location. From the Hydraulics report dated 05/29/02, it was determined that this structure to be scour critical. Furthermore, this structure has a history of settlement; Pier 2 is unstable for the calculated scour conditions.

Consequently, the bridge will continue to deteriorate.

6Q. List all alternatives studied, cost, reasons not recommended, etc.:

The "No-build" alternative was rejected because if does nothing to alleviate the structural and safety issues related to the existing condition of the bridge.

7. TRANSPORTATION MANAGEMENT

7A. Transportation Management Plan

A Transportation Management Plan (TMP) Data Sheet has been prepared for this project and is included in Attachment F. It is anticipated that two-way traffic be maintained throughout construction. TMP would include provisions for pedestrian access during construction. A conceptual staging plan would be developed during the PA/ED phase.

TMP will be required for this project. It is a special program that will be implemented during construction to minimize and prevent delay and inconvenience to the travelling public. The proposed construction and improvements may include roadwork that requires shoulder and lane closures.

The TMP for the project will be developed and refined during PA/ED and PS&E phases, supported by detailed traffic studies to evaluate traffic operations. The need for necessary lane closures during off-peak hours or at night will be identified, as required. The TMP may include press releases to notify and inform motorists, businesses, community groups, local entities, emergency services, and politicians of upcoming closures. Various TMP elements such as portable Changeable Message Signs and CHP Construction Zone Enhanced Enforcement Program may be utilized to alleviate and minimize delay to the travelling public.

7B. Vehicle Detection Systems

Not Applicable

8. ENVIRONMENTAL DETERMINATION/DOCUMENT

The Preliminary Environmental Analysis Report, dated 9/16/11 and included in Attachment G, identifies and helps to avoid potential environmental impacts and effects of the project. It also assists in development of alternatives and identifies technical studies and related costs required in the PA/ED phase.

It is anticipated that an Initial Study/Negative Declaration will be needed to meet the requirements of the California Environmental Quality Act (CEQA). The anticipated documentation to meet requirements of the National Environmental Policy Act (NEPA) would be Categorical Exclusion. More detailed studies during PA/ED phase may change this assessment. The final report is expected to be a joint NEPA/CEQA document during PA/ED.

9. FUNDING/SCHEDULING

9A. Cost Estimate:

Proposed funding 2012 SHOPP

STRAIN and o	ther Structural Work (by Structure)	Yes/No	,	Cost
(A)	Replace	<u>Yes</u>		<u>\$4,979,000</u>
(B)	Rehab	<u>No</u>		

(C)	Scour Correction <u>Yes</u>	Included
STRUC	CTURE COSTS SUBTOTALS (incl. Contingency and	<u>\$4,979,000</u>
•	Mobilization)	
District work	•	
Earthwork		
(A)	Roadway Excavation	<u>\$90,000</u> _
(B)	Import Borrow	<u>\$4,500</u>
Pavement Stri	actural Section	
(C)	Bridge Approach Slab	\$25,000
(D)	Hot Mix Asphalt	<u>\$60,000</u> _
(E)	Sidewalk	<u>\$5,000</u> _
Drainage		
(F)	Hydraulics	<u>\$50,000</u>
Specialty Item	ns	
(G)	Construction Area Signs	<u>\$1,000</u>
(H)	Water Pollution Control	<u>\$150,000</u> _
(I)	Detour Local Streets	\$200,000
(J)	Treatment BMPs	<u>\$100,000</u>
(K)	Revegetation Planting	<u>\$400,000</u>
(L)	Erosion Control	<u>\$100,000</u>
 (M)	Rock Slope Protection	\$40,000
(N)	Roadside Management	<u>\$10,000</u> _
 (O)	Electrical Work	\$10,000
Traffic Items		
(P)	Traffic Stripes and Pavement Markings	\$10,000
(Q)	Pavement Markers	<u>\$2,500</u>
(R)	Traffic Management Plan	<u>\$200,000</u>
(S)	Traffic Control System	\$40,000
(T)	Crash Cushion & Related Items	<u>\$15,000</u>
(U)	RE Office	\$200,000
*Minor Items		<u>\$85,700</u> _
*Roadway M	obilization	<u>\$179,900</u>
*Supplementa	al Work (5%)	<u>\$89,900</u>
*Contingencie	es (25%)	<u>\$517,100</u>
	DISTRICT COSTS SUBTOTALS	<u>\$2,585,600</u>
	RIGHT OF WAY (incl. environmental mitigation)	<u>\$674,000</u>
	TOTAL PROJECT COST (current)	<u>\$8,238,000</u>
	TOTAL PROJECT COST (escalated to mid-construction)	<u>\$9,878,000</u>

^{*} Only District work

9B. Project Support:

	111100		•		Design 1 Phase		Right of		Constru 3 Phase		Total
	Dist	DES	Dist	DES	Dist	DES	Dist	DES			
Estimated PY's	4.3	2.1	2.9	2.9	2.4	(3.2	3.2	21		
Estimated 1 1 5							550	550	357		
Estimated PS \$'s	730	360	490	490	400	 	550	330	, <u></u>		
Estimated PYE \$'s							}				
(\$1000's) Total \$'s (\$1000's)	730	360	490	490	400		550	550	357		

9C. Project Schedule:

Milestones	Delivery Date (Month, Day, Year)
Begin Environmental	May 2012
Notice of Intent (NOI)	May 2012
Circulate DED	September 2013
PA & ED	March 2014
Regular Right of way	May 2014
Project PS&E	November 2015
Right of way	March 2016
Certification	
Ready to List	March 2016
Approve Contract	June 2016
Contract Acceptance	December 2017
End Project	December 2018

10. FEDERAL COORDINATION

Per SAFETEA-LU, this project is eligible for federal-aid funding and is considered to be STATE-AUTHORIZED under current FHWA-Caltrans Stewardship Agreements.

11. SCOPING TEAM FIELD REVIEW ATTENDANCE ROSTER:

N T 0	Division	Phone Number
Name	Structure Hydraulics, HQ	916-227-8018
Steve Ng		916-227-8621
Jay Quiogue	Structure Design	916-227-8996
Sergio Damian	Structure Design	707-428-2058
Nick Abuhamdieh	Structure Construction	/07-420-2030

Chau Ha	Structure Construction	707-428-2069
Sunny Yang	Structure Foundation	510-286-4808
Stewart Lee	Design SHOPP	510-286-5986
Marcus Chan	Design SHOPP	510-622-8840
Nazeer Babacarkhial	Design SHOPP	510-622-5698

Field review took place on August 23, 2011.

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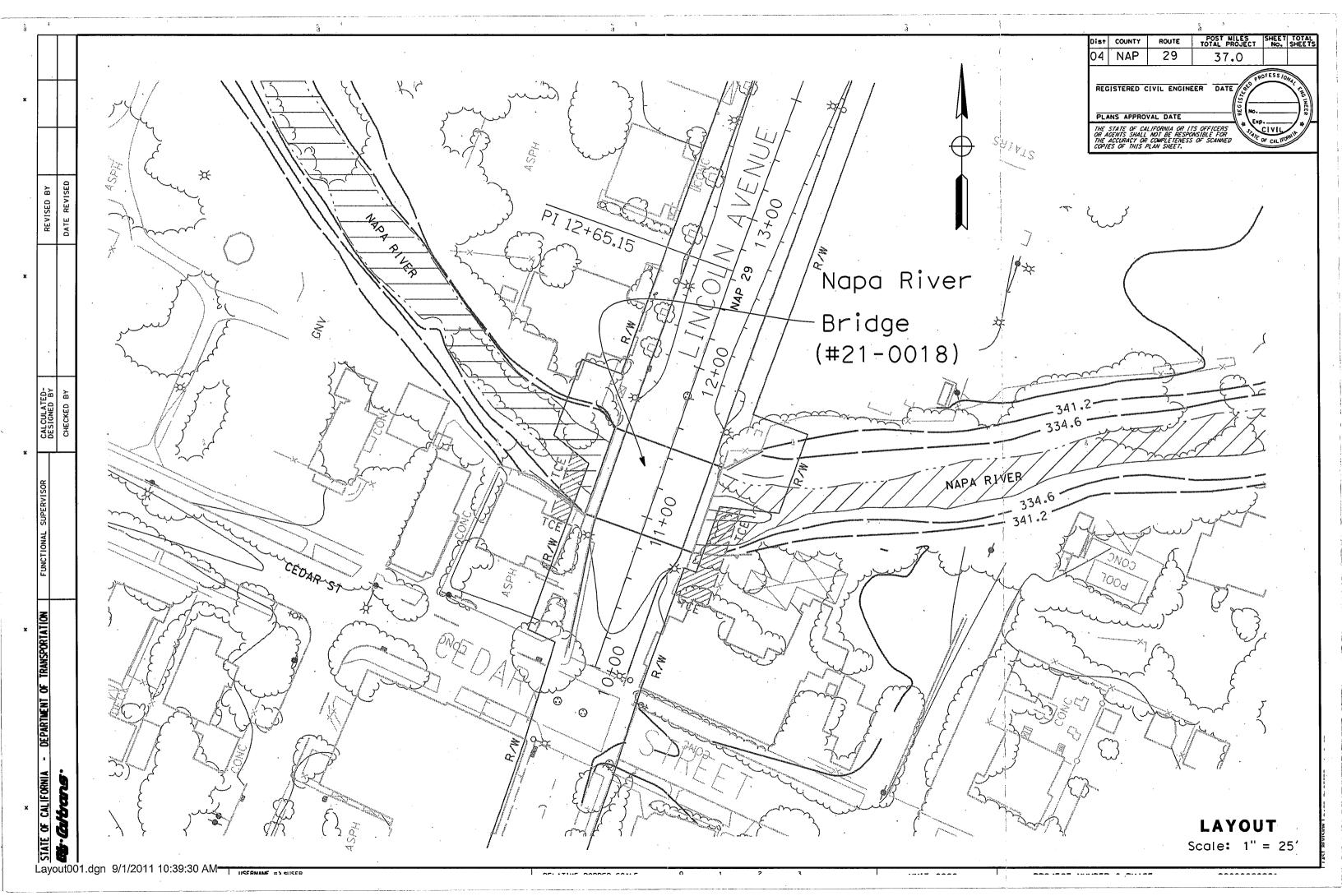
Scoping team field review attendance roster (see above).

Project Reviewed by:	
District Maintenance Fuk Nyan Kurniawan	Date 9/15/11
District Safety Hung Tran	Date <u>9/15/11</u>
HQ Division of Design	Date
HQ Program Advisor <u>Takako Fujioka</u>	Date 9/15/11
FHWA NA	Date
Others NA	Date

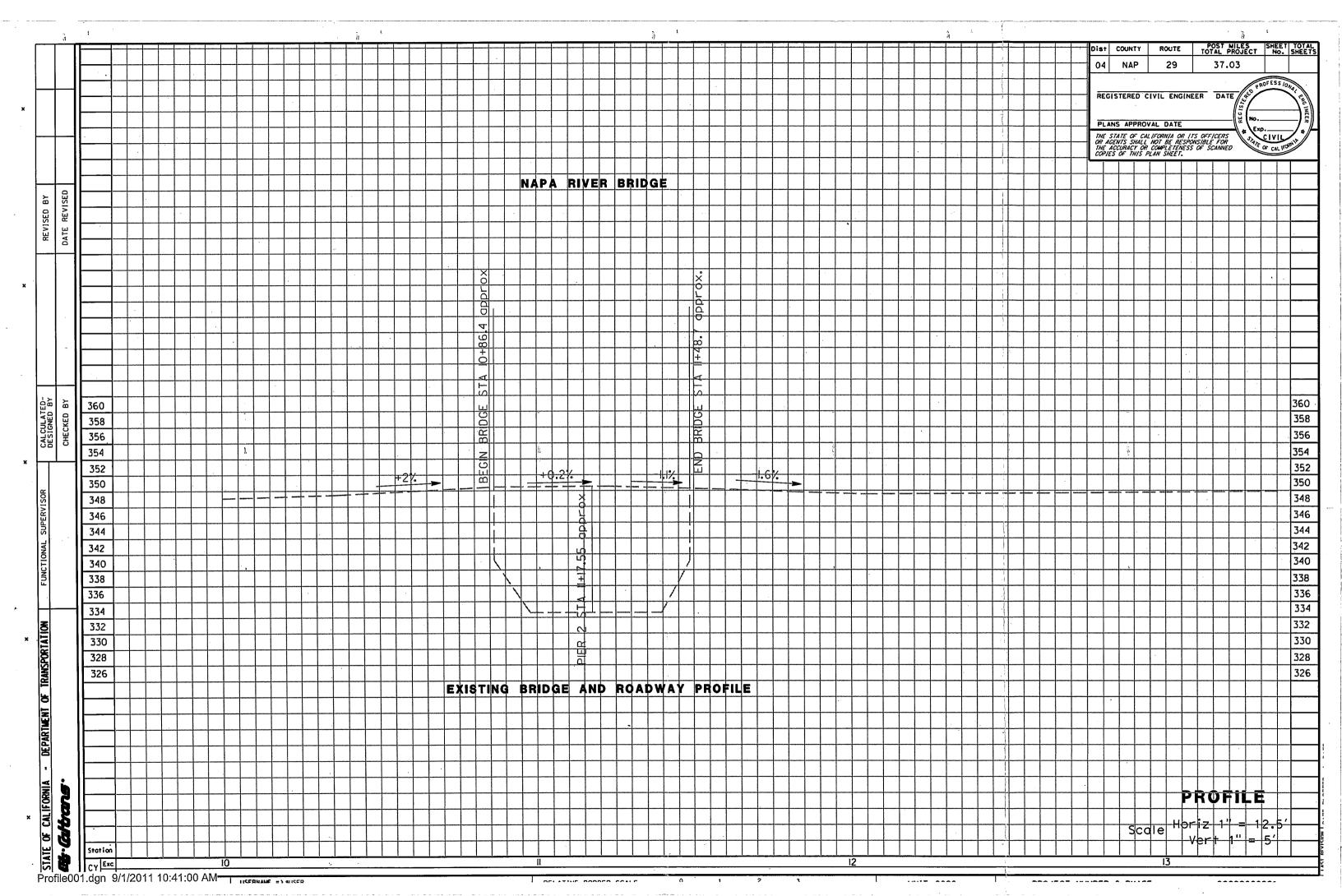
13. ATTACHMENTS

- A. Layout Plan
- B. Profile
- C. Right of Way Data Sheet
- D. Advance Planning Study
- E. Bridge Inspection Report (4/17/09) and Scour Evaluation Report (1/27/09)
- F. Transportation Management Plan Data Sheet
- G. Preliminary Environmental Analysis Report
- H. Storm Water Data Report

Attachment A



Attachment B



Attachment C

T0: Office of Design SHOPP	Date 992011 Dist 4 Co Nap Rte 29
	Dist <u>4</u> Co Nap Rte 29 PM 37.03
	EA 3G640K (04-12000134)
Attention: Stewart Lee District Branch Chief	EA 30040K (64-12000101)
From: ENID LAU Right of Way Resource Manager	Bridge Replacement D.S. #5998
Subject: Current Estimated Right of Way Costs	
We have completed an estimate of the right of way costs for the we received from you on August 29, 2011 and the following ass	
[] 1. The mapping did not provide sufficient detail to required.	determine the limits of the right of way
[] 2. The transportation facilities have not been suffice determine the damages to any of the remainder p	various antocisa by the first
[] 3. Additional right of way requirements are anticip preliminary nature of the early design requirements	nus.
project, which may affect the total project right	
[] 5. We have determined there are no right of way f project at this time, as designed.	٠.,
Right of Way Lead Time will require a minimum of mean requirements (PYPSCAN node No. 224), necessary envious freeway agreements have been approved. From the date of (PYPSCAN node No. 265), we will require a minimum of of the project. Shorter lead times will require either more rigorous of condemnation suits to be filed. Either of these actions not recognitive.	receipt of final right of way requirements months prior to the date of certification to final right of way resources or an increased number
programs or our public image generally.	Arr Right of Way Resource Manager
Attachments:	U
Right of Way Data Sheet – Page One (always Right of Way Data Sheet – All Pages (require acquired)	required) d when interest in real property is being
Utility Information Sheet Railroad Information Sheet	

RIGHT OF WAY DATA SHEET

.TO:	Design SHOPP	Date		9/07/11	D.S.#	5998	·
		Dist	04	co Nap	Rte <u>29</u> PM	37	.03
ATTN:	Stewart Lee	EA	3G640	OK .			
•		Projed	ct Descr	iption:	Bridge Replacem	nent	:
	CT: Right of Way Data – Altern	ate No.					
1.	Right of Way Cost Estimate:			urrent Value Füture Use)	Escalation . Rate	Esc	calated Value
	A. Acquisition, including Excess L Damages, and Goodwill.	ands,	\$	102,000.00	<u>.</u> %	\$	102,000.00
	Mitigation Costs		•			.\$	510,000.00
· · ·	Grantor's Appraisal Cost					\$	10,000.00
	B. Utility Relocation (State Share)	•	\$	50,000.00)%	\$	50,000.00
	C. Railroad (Service Contract)					 \$	00.00
	D. Relocation Assistance		. \$ _	2,000.00	<u>)</u> %	\$_	2,000.00
	E. Clearance/Demolition		\$_	00.00	<u>)</u> %	\$	00.00
	F. Title and Escrow Fees	•	\$	00.00) %	\$	00.00
	G. TOTAL ESCALATED VALUE		-			\$	674,000.00
	H. Construction Contract Work		\$	•		· -	
			· -		_		
2.	Anticipated Date of Right of Wa	y Certifica	ation				· · · · · · · · · · · · · · · · · · ·
3.	Parcel Data:						•
	<u>Type</u> <u>Dual/Appr</u> X	ι	<u>Utilities</u> J4-1		RR Involvements None		Х
	A			2 (C&M Agrmt		
	B 2		-3 -4		Svc Contract Design	_	
	: D	Ų	***************************************	2	Const.		
	E XXXX F XXXX		⁻⁸ —	L	ic/RE/Clauses	_	-
	` 				Misc R/W Work		
					RAP Displ Clear Demo	-	0
	Total 2				Const. Permits	. –	0 .
				(Condemnation	_	0
Areas:	Right of Way No.	Excess I			Excess_		
Enter P	MCS Screens//	<u> </u>	2011	by <i>f</i>	P.T		
Enter A	GRE Screen (Railroad data only	/)	/_		by		

Exhibit 01-01-01 EA: 3G640K Page 2 of 5

4.	Are there any major items of construction contract work? Yes ☐ No ☒ (If yes, explain)
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required
	There are two parcels required for this project. The temporary construction easements are required from the back yard of the both properties abutting the Napa River.
6.	Is there an effect on assessed valuation? Yes ☐ Not Significant☐ No ☒ (If yes, explain)
7.	Are utility facilities or rights of way affected? Yes ⊠ No ☐ (If yes, attach Utility Information Sheet Exhibit 01-01-05)
8.	Are railroad facilities or rights of way affected? Yes ☐ No ☒ (If yes, attach Railroad Information Sheet Exhibit 01-01-06)
9.	Were any previously unidentified sites with hazardous waste and/or material found? Yes ☐ None evident ☒ (If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)
10.	Are RAP displacements required? Yes ⊠ No □ (If yes, provide the following information)
	No. of single family No. of business/non profit 2
	No. of multi-family No. of farms
	Based on Draft/Final Relocation Impact Statement/Study dated, it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.
11.	Are there material borrow and/or disposal sites required? Yes \(\square\) No \(\square\) (If yes, explain)
12.	Are there potential relinquishments and/or abandonments? Yes \(\square\) No \(\square\) (If yes, explain)
13.	Are there any existing and/or potential Airspace sites? Yes No

Exhibit 01-01-01 EA: 3G640K Page 3 of 5

14.	Are there Environmental Mitigation costs? (If yes, explain)	Yes		No		٠,
•	Mitigation costs were provided by Stewart Lee.					
15.	Indicate the anticipated Right of Way schedule and lead proposes less that PMCS lead time and/or if significant panticipated.)	time req pressure	uireme s for pr	nts. (D oject ad	iscuss i Ivancer	f District nent are
	PYPSCAN lead time (from Regular R/W to project certification)	cation) _	22	moi	nths	
16.	Is it anticipated that all Right of Way work be performed Yes ⊠ No ☐ (If no, discuss)	by CALT	RANS	staff?		

Assumptions and Limiting Conditions

This data sheet was completed without a hazardous waste/materials report.

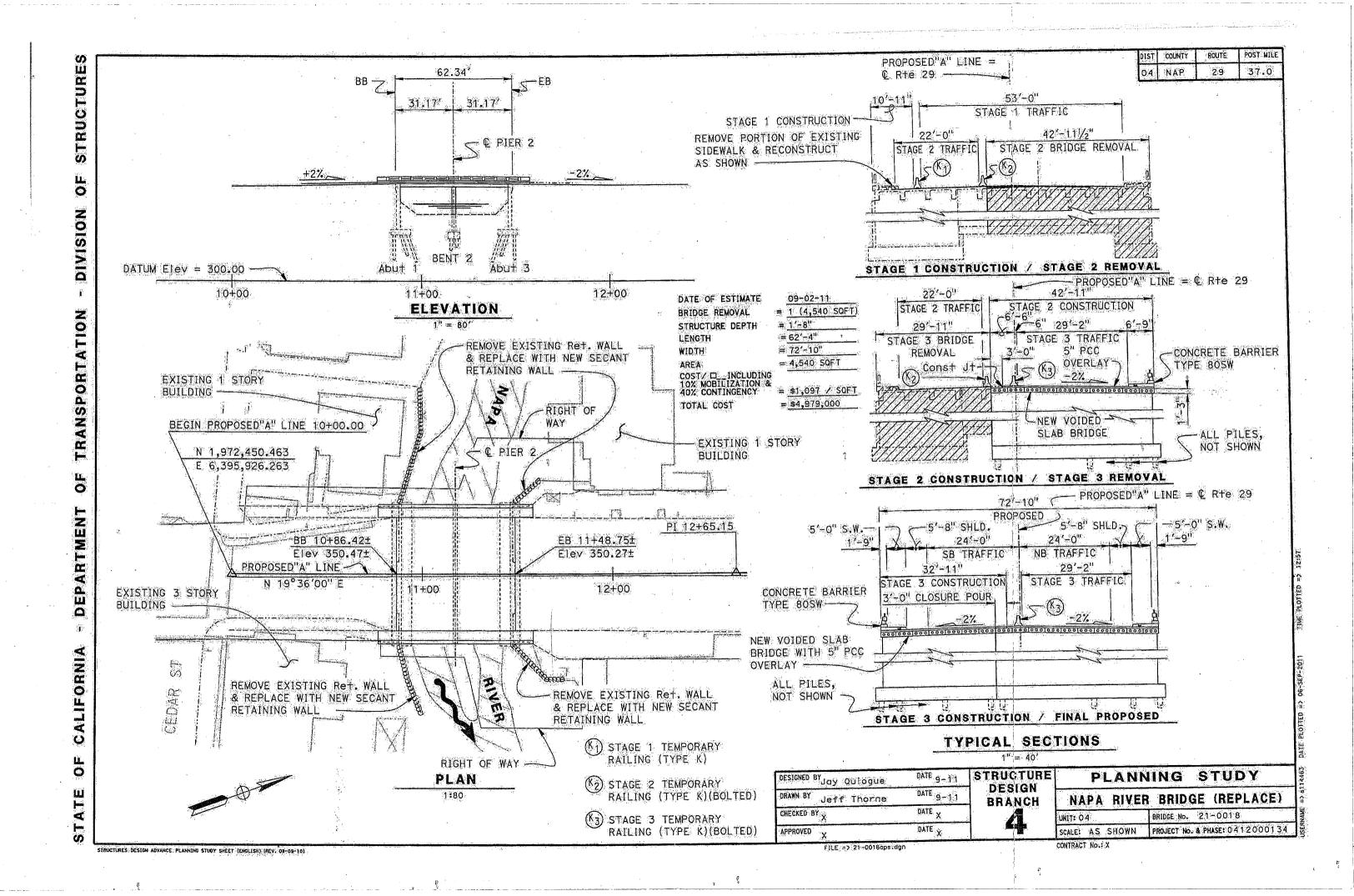
Information on this data sheet was based on maps provided by Stewart Lee on 8/29/11.

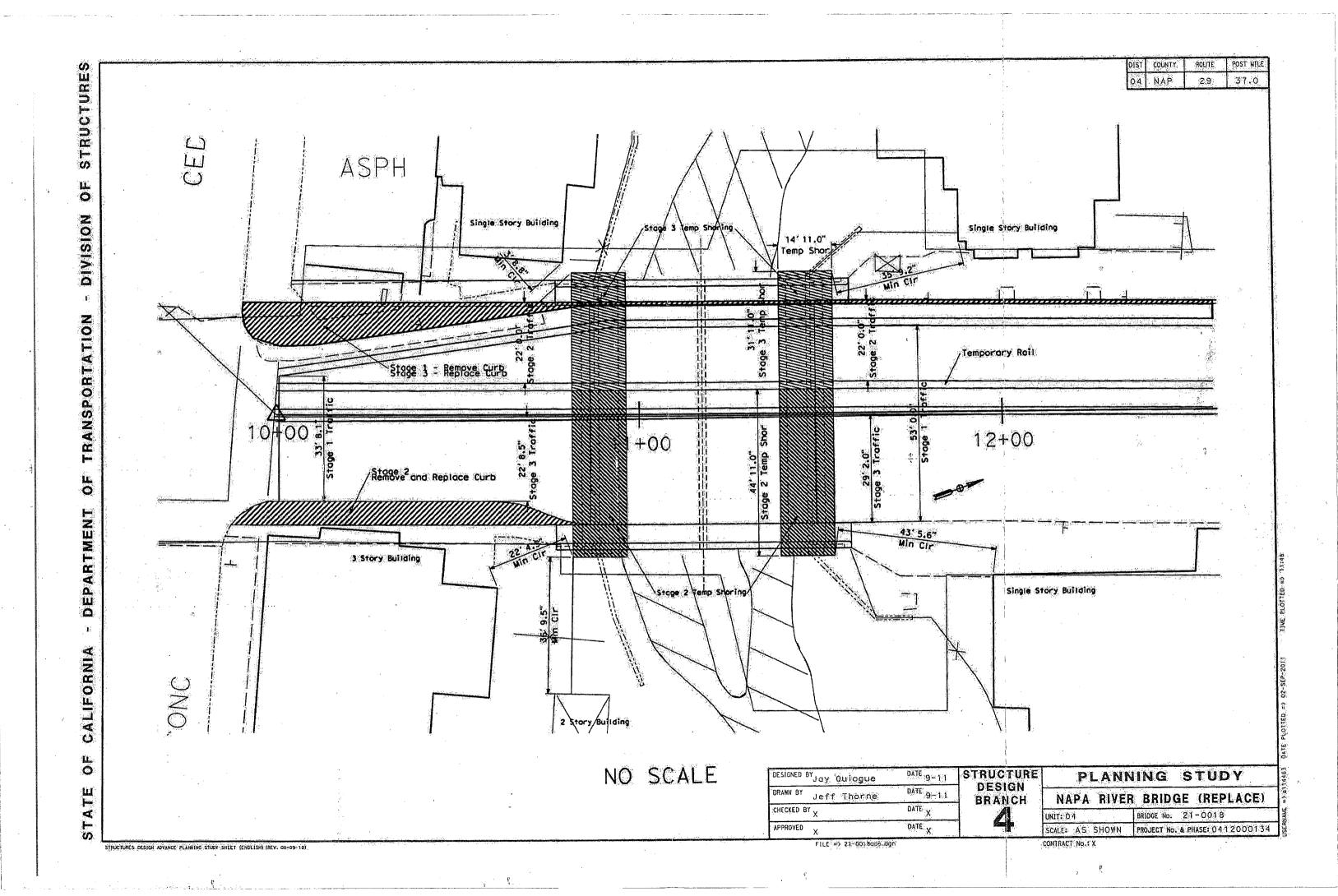
	Evaluation Prepa	ared By: Ly	ynn White	, 1				
	Right of Way:	Name	Sion	Wyz		Date	9/7/4	×.
	Railroad:	Name _	Dax	S	2	Date	9/8/10	
	Utilities:	Name _		Mare	au .	Date.	9/1/11	t ,
		•	•	Recomm	ended for A	pproval:	~ ~	
•				, all	rone	Ma	rich	
•				Right of \	Way Capital	Cost Co	ordinator	
that the reason	personally review probable Highes able and propers	st and Bes	t Use, estima	ted values, esc	alation rates	, and ass	sumptions are	ħ
current	•		•		1/1	7		
·						L1_	<u> </u>	
				Chief, R/	W Appraisal	Services	3	
	•		. •		9/8/11			
•				Date	7.57		•	
cc:	Program Manager Project Manager				· ,			

UTILITY INFORMATION SHEET

Utility Owners located within project limits:	•
PG&E – gas and electric AT&T City and County of Napa – water & sewer Comcast	
Facilities potentially impacted by project (if known, ir	nclude Owner(s) and facility type(s)):
PG&E – gas and electric AT&T - telephone City and County of Napa – water & sewer Comcast - cable	
3. Anticipated Workload:	
X Utility Verification required Positive Identification X Utility Relocation Other (Specify)	
4. Additional information concerning anticipated utility is conditions and a narrative addressing likelihood that	
Involves possible relocation of electric tra (If X'd, Data sheet should be forwarded to	
5. PMCS input information	
U4-1 2 Owner Expense Involvements U4-2 2 State Expense Involvements (Conventional, No Fed Aid) U4-3 State Expense Involvements (Freeway, No Fed Aid) U4-4 State Expense Involvements (Conventional or Freeway, Fed Aid)	U5-7 2 Verifications-without involvements U5-8 Verifications-50% involvements U5-9 Verifications resulting in involvement
NOTE: The sum of the U-4's must equal the sum	of ½ of the U5-8's and all of the U5-9's.
ESTIMATED STATE SHARE OF COSTS \$50,000.00	
Prepared by:	
Suresh Dharmani	9/7/11
Right of Way Utility Coordinator	Date

Attachment D





PLEASE NOTE THE PROJECT COMPLEXITY:

Because of extremely close proximity to surrounding privately-owned buildings, removal of the existing bridge and construction of its replacement will require. considerable efforts from all parties involved to assure a quality finished product while protecting the surrounding community.

As per the project team decision from the phone conference with the District on September 1, 2011, Structure Design has prepared the preliminary cost estimate for the replacement of the existing Napa River Bridge based on the following key assumptions:

(ey Assumptions:

- During construction, the State will need to mitigate the safety hazards to the public because the bridge is the gateway to downtown Calistoga and is frequented by locals and tourists, especially pedestrians.
 - The State is willing to take on liability of possible damage to surrounding privately owned properties during as well as after construction. Owners of surrounding properties may hold responsible the State for any future damage that occurs after construction is complete.
 - The State obtains Right of Way to construct the following:
- o Temporary shoring at the abutments as tie-backs will encroach beyond current Right-of-Way.
- o Secant tie-back walls to replace existing un-reinforced masonny walls and reinforced concrete walls as tie-backs will encroach beyond current Right-of-Way.
- The temporary shoring systems and the new secant tie-back walls need to be designed and installed to protect the existing private property adjacent to the bridge.
 - Staged construction is sequenced to accommodate removal of the 1919 bridge in its entirety. The 1919 bridge abutments are un-reinforced masonry walls and Structures is not confident that these can be relied upon for staged construction purposes.
 - City will allow modifying curbs of adjacent roadways to accommodate the proposed staged construction sequence.
- Precast superstructure is preferred to decrease construction time, resulting in less impact to local businesses.
- Maintain current (We span configuration to decrease the depth of the superstructure, consequently increasing the bridge free board.
 - Pile foundations are necessary to avoid future scouring problems.
 - Existing utilities will need to be relocated.

(The list above is not all-inclusive.)

** During the next phase, the project scope will probably be changed to "scour" retrofit as opposed to full bridge replacement.

9	VING SIUDY	R BRIDGE (REPLACE)	BRIDGE No. 21-0018	PROJECT, No. & PHASE: 0412000134
STRUCTURE DI ANNE	7 [BRANCH NAPA RIVER	UNIT: 04	SCALE: AS SHOWN
DESIGNED BY OUTOGUE BATE 9-11	DRAMM OF JOSE Thorne 0ATE 9-73	CHECKED DY X	APPROVED X	TILE = N. 21. CO18005. OGA

Rensed - August 1	0,2014	RCVD BY:	RP:	e.	IN EST:	9/6/2011
	, · · · · · · · · · · · · · · · · · · ·			- .	OUT EST:	9/6/2011
ur vide lost ingames	Authoritis and applications of the translational additional additi	**************************************	21-0020		DISTRICT:	04
		BR. No.:	21-0018	n .	RTE:	29
TYPE:	2 SPAN PC/PS VOIDED SLAB BRIDGE	. .			CO:	NAPA
CU:	59-224 3G640K:/-412000134	i		•	PM:	37.03
EA:	3G040N /412000134 LENGTH:	62' - 4"	WIDTH	72' - 10"	AREA (SF)=	
	DESIGN SECTION:	BRANCH 4				
		:04	:	EST. NO.	4	
	PRICES BY:	Pga		COST INDEX:	297	
	PRICES CHECKED BY	Pga		DATE:	9/6/2011	
	QUANTITIES BY:	JAY QUIOGUE	general de la composition della composition dell	DATE:	8/31/2011	ari ari en la la maria maria alca est
	CONTRACTITEMS	TYPE	UNIT	QUANTITY	PRICE	AMOUNT
S. Jane	REMOVE BRIDGE	7.50	SF	4,540.00	\$30.00	\$136,200,00
2	2 SPAN T-GIRDER BRIDGE			<u> </u>	<u> </u>	
3`	and the second s	\$1		1	- FAGD 00	6009 000 00
A	2 SPAN PC/PS VOIDED SLAB BRIDGE	A Committee of the Comm	SF	4,540.00	\$200.00	\$908,000.00
5	IS" DEEP SLAB + 5" DECK		246 F. 11 S. 124 JW	Section 1995	A CANADA ON MANAGEMENT	.] Napra in a naprakah hinaarka "g
6	PIER WALL AND STRUTTED ABUTMENTS	<u> </u>		The eastern and temporal and a	<u> Allandarian markana</u>	State of the second sec
7	ON PILE FOUNDATIONS	 				a seema as a seemal
8		1	CY.	359	\$500.00	\$179,500.00
9	REMOVE RETAINING WALLS		(<u>C1</u>	+	9300.00	02.0,000.00
.10	SECANT WALL (H = 30) (TOTAL 4 WALLS)		THE STATE OF	3,840	\$150.00	\$576,000,00
11	64:30" DIAMETER CIDH PILES @ 60" LONG					3
13	TIEBACK ASSEMBLY (SECANT WALLS)		EA	64.	\$4,000.00	\$256,000.00
14	ARCHITECTURAL TREATMENT (SECANT WALLS	Sacra van Samonii	SF	4,000	\$20.00	\$80,000.00
15		Land of the second of the second	A. F. A. A. A. A. S.	-0		na garanta naman kamana a sama ndi Sanda nama panagang na sa
16	CONCRETE BARRIER	80SW	LF	163	5300,00	\$48,780.00
17	ARCHITECTURAL TREATMENT (BARRIERS)		SF	1,138	\$10.00	\$11,382.00
18				9.20.5		
19	CONSTRUCTION STAGING				P	
20	3 STAGES	The state of the s		4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
21	4		<u> </u>		mar de	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
22.	TEMPORARY RAILING	К	LF	780	S25.00	\$19,500.00
23			211	<u> </u>	E1-000-00	\$3,000.00
24	STAGE I REMOVE CURB (BRIDGE)		CY	3	51,000.00	93,000.00
25	STAGE 2 TEMP SHORING (WITH MONITORING)		SF	1,348	\$300.00	\$404,250.00
26	SOLDIER PILE WITH TIE BACKS OR	S Common of Assert Const.	Personal a	1.273	3000.00	27 02 27 11 11
27	COFFERDAM (H=30)	<u> </u>		er Comessation volume extension	1	
29	COPPERDAM (II = 30)	*	<u> </u>	7	TAN TOURS OF THE SAME	en e
30	STAGE 3 TEMP SHORING (WITH MONITORING)	18******	SF	958	\$300.00	\$287,250.00
31	SOLDIER PILE WITH TIE BACKS OR	and the second s	A STATE OF THE SAME		5 m. 16	
32	COFFERDAM (H = 30')	4	Programme and the second			
33		i kan emakan	adabi wasaw	-#		
34	And the control of th	Organia de la Compania del Compania de la Compania del Compania de la Compania de				
35.			1	4		
36	SCOUR CRITICAL		-3		<u> </u>	70,700,940
\$ "		SUBTOTAL				\$2,909,862 \$290,986
	way of the section		ED OVERHE		<u> </u>	\$290,986 \$355,650
	ROUTING		ION (@IU&			\$3,556,498
	1. DES SECTION	CONTINGEN	BRIDGE ITEM	@ 40%	ATT TO THE STATE OF THE STATE O	\$1,422,599
	1. OFFICE OF BRIDGE DESIGN - NORTH	Appendix and the second second		W-4070	 	\$4,979,097
	3. OFFICE OF BRIDGE OFFICH - CENTRAL	BRIDGE TOT		7 \$ 11×1 % 12+1	Sin Bullion	\$1,096.72
	4 OFFICE OF BRIDGE DESIGN SOUTH	COST PER SO		TINGENCIES IN	rot. Y	993,39793.52
	5. OFFICE OF BRIDGE DESIGN WEST			UTILITY FORC		
	A OFFICE OF BRIDGE DESIGN SOUTHERN CALIFORNIA	GRAND TO		or transfer, transfer Alle	The state of the s	\$4,979,097

COMMENTS:

Attachment E



DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 21 0018

Facility Carried: STATE ROUTE 29

Location

: 04-NAP-029-37.03-CSTG : CALISTOGA

City

Inspection Date: 04/17/2009

Bridge Inspection Report Inspection Type
Routine FC

Routine FC Underwater Special Other

STRUCTURE NAME: NAPA RIVER

CONSTRUCTION INFORMATION

 Year Built : 1919
 Skew (degrees): 0

 Year Widened: 1952
 No. of Joints : 0

 Length (m) : 18.9
 No. of Hinges : 0

Structure Description: RC "T" beam (6 girders) on RC pier and masonry abutments widened on both sides with "T" beams (8 girders) on RC abutments and pier. All on spread footings.

Span Configuration :2 @ 8.3 m

LOAD CAPACITY AND RATINGS

Design Live Load: M-13.5 OR H-15

Inventory Rating: 47 metric tonnes Calculation Method: LOAD FACTOR Operating Rating: 78.1 metric tonnes Calculation Method: LOAD FACTOR

Permit Rating : PPPPP

Posting Load : Type 3: <u>Legal</u> Type 3S2: <u>Legal</u>

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: 0.1 m br, 1.8 m sw, 17.9 m, 1.8 m sw, 0.1 m br

Total Width: 22.2 m Net Width: 18.0 m No. of Lanes: 4
Rail Description: Steel Baluster. Rail Code : 0000

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Boulders and sand.

CONDITION TEXT

WORK DONE

The cracks in the AC were sealed.

CONDITION OF STRUCTURE

The water depth was approximately 0.3 m in Span 2. All of the visible elements were inspected except the nose of Pier 2 due to the large scour hole at the location.

The approach roadways and sidewalks at both abutments have a history of settlement first noted in the Supplemental Report dated 11/14/60. This is particularly evident in the sidewalks on the upstream side of this structure. These sidewalks have been patched several times to account for continued differential settlement. The amount of settlement was measured at the following locations:

Abutment 1, Right - 25 mm Abutment 3, Right - 25 mm

There are longitudinal cracks in the AC deck surface that seem to coincide with the bridge widening joints.

There is a 0.1 m diameter spall with exposed transverse reinforcement in Girder 11 in Span 1. This condition was previously reported and remains unchanged.

At Girder 6, Span 2, there is a spall and unsound concrete with several exposed square

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21 0018/AAAN/16383

CONDITION TEXT

reinforcing bars. One longitudinal bar and four transverse bars are exposed at this location and all have surface rust. The affected area is approximately 5 m long.

At Girder 11, Span 2, there is a large longitudinal crack and multiple incipient spalls along its bottom face. Approximately 4 m of the girder is cracked and one area is patched.

There is a 3 m long vertical crack in Pier 2 under Girder 5. See the attached photo.

Three cubic meters of debris is hung up on the nose of Pier 2.

MISCELLANEOUS

The 7/15/2008 channel cross section was spot checked at Pier 2 and remained unchanged.

SCOUR

The hydraulics report dated 05/29/02 determined this structure to be scour critical.

		INSPECTION RATINGS Element Description	Env	Total	Units	· Qt	y in ea	ch Condi	tion Sta	te
			•	Qty		St. 1	St. 2	St. 3	St. 4	St. 5
101	13	Concrete Deck' - Unprotected w/ AC Overlay	. 2	420	sq.m.	420	0	O	0	. 0
101	110	Reinforced Conc Open Girder/Beam	2.	269	m.	252	.0	17	0	.0
101	210	Reinforced Conc Pier Wall	2	22	m.	20	2	0	٥	0
101	215	Reinforced Conc Abutment	2	. 28	m.	24	4	0	0	0
101	217	Other Material Abutment	2	16	m.	16	0	0	0	0
101	330	Metal Bridge Railing - coated or uncoated	. 2	51	π.	51	['] 0	0	0	0
101	361	Scour	2	1	ea.	0	1	10		

WORK RECOMMENDATIONS

RecDate: 04/17/2009 Action : Sub-Misc.

Work By: BRIDGE CREW Status : PROPOSED

RecDate: 07/01/2002

Action : Sub-Scour Mitigate

Work By: STRAIN

Status : PROPOSED

EstCost:

\$2,000 StrTarget: 2 YEARS

DistTarget:

\$750,000 EstCost:

StrTarget: 2 YEARS

DistTarget:

EA:

EA:

Scour critical bridge due to potential

Remove the debris that has accumulated on

undermining of Pier 2. Proposed countermeasure alternatives are:

the nose of Pier 2.

- 1). Replace the structure, keeping structure depth to a minimum due to lack of freeboard during high flows. The estimated cost is \$750,000.
- 2). Fully line the channel bed under the bridge with a PCC slab. This option should include a 1.5m deep cutoff wall at the upstream and downstream ends of the slab to prevent undermining. Estimated cost is \$80,000.
- 3). Place a PCC apron around the upstream end of Pier 2. Limits of apron to be 10

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WORK RECOMMENDATIONS

ft on either side of the pier, 10 ft upstream of the pier nose and 30 ft downstream of pier nose. Bottom of slab to be level with top of pier footing. Upstream end of slab to be protected from undermining with a 5 ft deep cutoff wall. Estimated quantity is 25 cu yd; estimated cost is \$25,000.

RecDate: 11/16/2001 EstCost: \$2,000
Action: Bridge-Misc StrTarget: 2 YEARS
Work By: BRIDGE CREW DistTarget:
Status: PROPOSED EA:

Repair, patch, and level the sidewalk approaches on both ends of the structure that have settled.

RecDate: 12/07/1999 EstCost;
Action: Joints-Repair/Clean StrTarget:
Work By: BRIDGE CREW DistTarget:

Remove unsound concrete in Girder 6 of Span 2 and Girder 11 of Span 1. Repair with a suitable material. The Action Item for this work recommendation states, "30 - Joints - Repair/Clean" and should be "10 - Super - Patch Spalls. This cannot be changed since the work is already programmed.

RecDate: 12/01/1995 Action : Super-Patch spalls Work By: BRIDGE CREW EstCost: \$2,600 StrTarget: 2 YEARS DistTarget:

\$1,000

2 YEARS

1E4701

Remove unsound concrete and patch the spalls in Span 2, Girder 11.

Status : PROGRAMMED

Status : PROGRAMMED

EA: 1E4701

F1-06 / F2-0 / F3-5 / Rail Type-Steel

Action : Railing-Upgrade

EstCost: \$102,000 StrTarget: 2 YEARS

Baluster

Work By: STRAIN Status : PROPOSED

RecDate: 02/10/1984

DistTarget:

EA:

Registered Civil Engineer

EA:

Inspected By : P.Piacentini

1

EXP 9/10

OF CA

STRUCTURE INVENTORY AND APPRAISAL REPORT

•				
	**************************************			**************************************
(1)	STATE NAME- CALIFORNIA 069			STATUS
	STRUCTURE NUMBER 21 0018			
(5)	INVENTORY ROUTE (ON/UNDER) - ON 131000290			HEALTH INDEX 97.2
(2)	HIGHWAY AGENCY DISTRICT 04			PAINT CONDITION INDEX = N/A
(3)	COUNTY CODE 055 (4) PLACE CODE 09892			******** CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- NAPA RIVER		(112)	NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- STATE ROUTE 29		(104)	HIGHWAY SYSTEM- NOT ON NHS 0
(9)	LOCATION- 04-NAP-029-37.03-CSTG		(26)	FUNCTIONAL CLASS- MINOR ARTERIAL RURAL 06
	MILEPOINT/KILOMETERPOINT 37.03		(100)	DEFENSE HIGHWAY- NOT STRAHNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1		(101)	PARALLEL STRUCTURE- NONE EXISTS N
	LRS INVENTORY ROUTE & SUBROUTE 00000002901		(102)	DIRECTION OF TRAFFIC- 2 WAY 2
	LATITUDE 38 DEG 34 MIN 36 SEC		(103)	TEMPORARY STRUCTURE~
	LONGITUDE 122 DEG 34 MIN 42 SEC		(105)	FED.LANDS HWY- NOT APPLICABLE 0
• • • • •	BORDER BRIDGE STATE CODE		(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER		(20)	TOLL- ON FREE ROAD 3
(33)	BORDER BRIDGE STRUCTURE NUMBER		(21)	MAINTAIN- STATE HIGHWAY AGENCY 01
	****** STRUCTURE TYPE AND MATERIAL ******		(22)	OWNER- STATE HIGHWAY AGENCY 01
(43)	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE CONT		(37)	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
	TYPE- TEE BEAM CODE 204			
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA			************ CONDITION ********** CODE
	TYPE- OTHER/NA CODE 000			DECK · 7
(45)	NUMBER OF SPANS IN MAIN UNIT , 2			SUPERSTRUCTURE 5
(46)	NUMBER OF APPROACH SPANS . 0			SUBSTRUCTURE 5
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1		•	CHANNEL & CHANNEL PROTECTION 5
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:		(62)	CULVERTS N .
A)	TYPE OF WEARING SURFACE- BITUMINOUS CODE 6			******* LOAD RATING AND POSTING ****** CODE
B)	TYPE OF MEMBRANE- NONE CODE 0		(31)	DESIGN LOAD- M-13.5 OR H-15 2
C)	TYPE OF DECK PROTECTION- NONE CODE 0			OPERATING RATING METHOD- LOAD FACTOR 1
	******* AGE AND SERVICE *********			OPERATING RATING- 78.1
. (27)	YEAR BUILT 1919			INVENTORY RATING METHOD- LOAD FACTOR 1
(106)	YEAR RECONSTRUCTED . 1952			INVENTORY RATING- 47
(42)	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN . 5			BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
	UNDER- WATERWAY 5			STRUCTURE OPEN, POSTED OR CLOSED-
(28)	LANES:ON STRUCTURE 04 UNDER STRUCTURE 00		(11)	DESCRIPTION- OPEN, NO RESTRICTION
(29)	AVERAGE DAILY TRAFFIC 14200			
(30)	YEAR OF ADT 2000 (109) TRUCK ADT 4 %	,		*********** APPRAISAL ************************************
(19)	BYPASS, DETOUR LENGTH 3 KM		(67)	STRUCTURAL EVALUATION 5
	******* GEOMETRIC DATA ***********		(68)	DECK GEOMETRY 5
(48)	LENGTH OF MAXIMUM SPAN 8.5 M			UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	STRUCTURE LENGTH 18.9 M			WATER ADEQUACY 5
(50)	CURB OR SIDEWALK: LEFT 1.8 M RIGHT 1.8 M			APPROACH ROADWAY ALIGNMENT 8
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB 18.0 M			TRAFFIC SAFETY FEATURES 0000
	DECK WIDTH OUT TO OUT 22.2 M		(113)	SCOUR CRITICAL BRIDGES 3
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 12.5 M			****** PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- NO MEDIAN 0		(75)	TYPE OF WORK- CODE
(34)	SKEW 0 DEG (35) STRUCTURE FLARED NO			LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M			BRIDGE IMPROVEMENT COST
	INVENTORY ROUTE TOTAL HORIZ CLEAR 18.0 M			ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M			TOTAL PROJECT COST
(54)	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M			YEAR OF IMPROVEMENT COST ESTIMATE
(55)	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M		• • •	FUTURE ADT 21639
(56)	MIN LAT UNDERCLEAR LT 0.0 M			YEAR OF FUTURE ADT 2029
	************ NAVIGATION DATA *********		•	•••
(38)	NAVIGATION CONTROL- NO CONTROL CODE 0		*	**************************************
	PIER PROTECTION- CODE ·			INSPECTION DATE 04/09 (91) FREQUENCY 24 MO
	NAVIGATION VERTICAL CLEARANCE 0.0 M			CRITICAL FEATURE INSPECTION: (93) CFI DATE
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		•	FRACTURE CRIT DETAIL- NO MO A)
	NAVIGATION HORIZONTAL CLEARANCE 0.0 M			UNDERWATER INSP- NO MO B) OTHER SPECIAL INSP- NO MO C)
			C)	OTHER SPECIAL INSP- NO MO C)

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21 0018/AAAN/16383

BRIDGE SCOUR EVALUATION & PLAN OF ACTION							
<u>Br. No.</u> 21 0018	Owner Caltrans	<u>Location</u> 04-NAP-029- 37.03-CSTG	Facility Carried STATE ROUTE 29	<u>Name</u> NAPA RIVER			
Plan of Act Scott Davis	Revised: 1/27/2009						

1: SCOUR VULNERABILITY RATING				
Scour Evaluation Summary: Scour critical due to potential undermining of the spread footing at Pier 2. There is hydraulic skew, and the 100-year storm event is expected to create pressure flow conditions (1979 FEMA study for the City of Calistoga shows the water surface at deck elevation). Calculations indicate that the combined effects of pressure scour and local pier scour could undermine the spread footing at Pier 2 by 1.4 ft. Depending on the length of footing affected, this may cause settlement, but is not expected to result in lateral instability of the pier.				
Scour History: The footing of the Abutment 1 right wing wall was partially undermined in 1953. A supplemental cutoff wall was placed in front of the original wall. In 1961, scour was noted on the Span 2 side of Pier 2. In 1999, a 2 ft deep residual scour hole was observed at the upstream end of Pier 2. In 2008 the minimum cover over the footing was determined to be 7".				
Foundation Type Spread footing Pile Extension Footing on Piles Unknown				
Foundation Material Known: Sand, gravel, clayey sand, clayey gravel Unknown				
Scour review done by: Scott Davis, SM&I Hydraulics Date: 10/24/2002				
Structural assessment done by: <u>SM&I Ratings Branch</u> Critical Elevation: <u>322.0 ft (bottom of Pier 2 footing)</u> Date: <u>2/26/2004</u>				
Geotechnical assessment done by: <u>DES Geotechnical Support</u> Date: <u>2002</u> Critical Elevation: <u>322.0 ft (bottom of Pier 2 footing)</u>				

2. NBIS CODING INFORMATION				
Inspection I	Date	7/15/2008		
Item 113	Scour	3		
Item 60	Substructure	6		
Item 61	Channel & Channel Protection	5		
Item 71	Waterway Adequacy	5		

3. COUNTERMEASURE RECOMMENDATION	
A. Completed Countermeasures: none	SECURITY OF THE SECURITY OF TH
B. Proposed Countermeasures:	
•	,
Countermeasures Not Required. (Please explain)	
Install Scour Countermeasures (See 4 and 5)	Estimated Cost
Riprap with monitoring program	\$
Guide bank	\$
Spurs / Bendway weirs / Barbs	\$
Relief bridge / Culvert	\$
X Channel improvements	\$ 80,000
Monitoring	\$
Monitoring device	\$
Check Dam	\$
Substructure Modification	\$
X Bridge replacement	\$ 750,000
Other:	\$
Two alternatives were proposed in 2002 - replacement of The channel improvement option consists of partially or concrete.	
	· .
	•
	22 TO 122 TO
4. COUNTERMEASURE IMPLEMENTATION SCHEDULE	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Countermeasure Implementation Project Type:	
Proposed Construction Project	
	•
Lead Agency: <u>CALTRANS</u>	
Maintenance Project	
Advertised Date: n/a	
Other scheduling information: No scour mitigation projects a	re programmed at this time.

5. MONITORING PLAN

Structure Maintenance & Investigations - Area Bridge Maintenance Engineer:

Inspect the foundations during routine biennial inspections, noting the depth and extent of scour at the nose of Pier 2. Report this information to the Hydraulics Branch.

Structure Maintenance & Investigations - Hydraulics Branch:

Perform supplemental inspections annually and after high flows. Inspection items shall include observations of channel and substructure conditions, measurement of channel cross-section, measurement of depth and extent of scour and amount of footing exposure and/or undermining.

District Maintenance:

During periods of intense rainfall in the vicinity of the bridge, or when otherwise alerted to possible high flow at the bridge, do the following:

- 1. Inspect the deck for settlement at the upstream end of Pier 2. Measure and record the distance to the water surface from top of sidewalk to water surface on the upstream side of the bridge.
- 2. If settlement is detected, close the bridge and contact Structure Maintenance & Investigations personnel in Sacramento (see Section 6, Bridge Closure Plan). Otherwise, return to the bridge at 12-hour intervals as long as the water surface is rising or remains above the monitoring level, which is 10.0 ft below the top of the sidewalk. Note that at least two successive inspections will be needed to determine if flow is increasing or decreasing. Once it is determined that the water level is dropping and is below the monitoring level, monitoring may be stopped.
- 3. Record the high water mark for the storm event and, if possible, the time it occurs. Report this information to the Hydraulics Branch in the Office of Structure Maintenance & Investigations.

Notes:

1. USGS real-time stream gage #11456000 is being monitored by the Office of Structure Maintenance & Investigations in Sacramento to detect potential high flow conditions at the bridge

dge Closure: Overtoevice Loss Loss of Road	wible. Set up as soon as possible. Set up as soon as possible. Sations prior to re-opening. Suppling road or structure Sof Riprap d Embankment Sent, rotation or lateral				
d as soon as poss re, and a detour s nance & Investiga dge Closure: Overtoevice Loss Loss of Road including settlem	wible. Set up as soon as possible. Set up as soon as possible. Sations prior to re-opening. Suppling road or structure Sof Riprap d Embankment Sent, rotation or lateral				
Overto evice	s of Riprap d Embankment ent, rotation or lateral				
Person Responsible for Closure: Nader Eshghipour, Deputy Director, District 4 Maintenance ofc 510-286-5893, cell 925-250-5587					
office 916-227-8	8843, cell 916-798-7162				
	8774, cell 916-798-7182				
	3036, cell 916-799-1423				
er office 916-2	27-8436, cell 916-719-0108				
office 916-227-9					
·					
office 707-762-6	5641, cell 707-695-5120				
office 707-762-6	6641, cell 707-695-5115				
office 707-428-2	2033, cell 707-689-3264				
office 707-942-	6010, cell 707-299-0590				
er, Structure Main	ntenance & Investigations				
() ()	office 916-227-8 office 916-227-8 office 916-227-8 office 916-227- office 916-227- office 707-762-6 office 707-428- office 707-942- r, Structure Main				

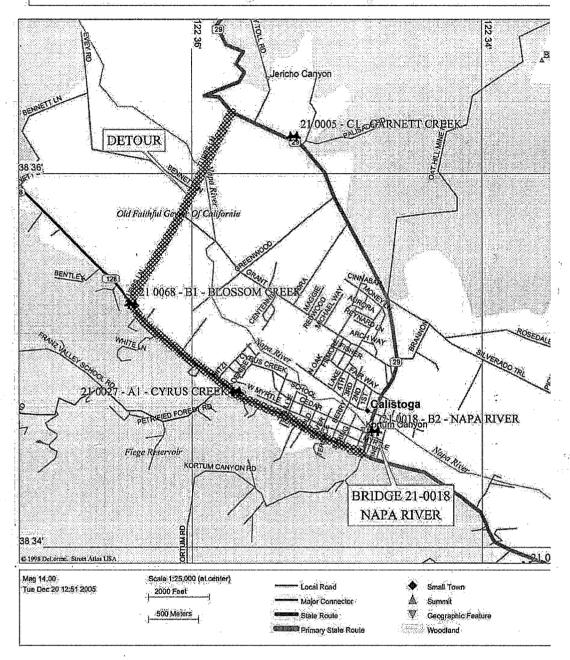
7. DETOUR ROUTE

Detour route description

Ahead on Route: From juncture of Route 29 and Route 128 in Calistoga, take Route 128 north 1.8 mi to Tubbs Lane, then take Tubbs lane 2.1 mi north to Route 29.

Average ADT: 4110	Year: 1997	% Trucks: 10	Length: 3.9 r	3.9 mi	
Bridges on Detour Rou	ıte:				
Bridge Number	Waterway	Sufficiency Rating/ Load limitations		Scour 113 code	
21-0027	Cyrus Creek	87.9 / 53.5 metric tons (operating)		. 8	
21-0068	Blossom Creek	51.9 / 26.0 metric tons (operating)		5	
				,	

Detour: Bridge 21-0018 Napa River



Attachment F

TRANSPORTATION MANAGEMENT PLAN DATA SHEET (Preliminary TMP Elements and Costs)

Co/Rte/PM	NAP/29/PM 37.03 EA 3G640K Project Er	ngineer	Emarnan Pongpairoj.
Project Limit	In Napa County on Route 29 at P.M. 37.03	-8	
Project Descri		2-lane	Bridge to
	Comply current standards		
1) Pul	olic Information		,
ŕ	a. Brochures and Mailers	\$	
	b. Press Release	·	
	c. Paid Advertising	\$	
	d. Public Information Center/Kiosk	\$	· · · · · · · · · · · · · · · · · · ·
	e. Public Meeting/Speakers Bureau	•	
	f. Telephone Hotline		
	g. Internet, E-mail		
	h. Notification to impacted groups		
	(i.e. bicycle users, pedestrians with disabilities, others.)	
	i. Others	\$	10,000.00
2) Tra	veler Information Strategies	i ė	
,	a. Changeable Message Signs (Fixed)	\$,
	b. Changeable Message Signs (Portable)	\$	10,000.00
	c. Ground Mounted Signs	\$	
	d. Highway Advisory Radio	\$	
	e. Caltrans Highway Information Network (CHIN)		
	f. Detour maps (i.e. bicycle, vehicle, pedestrianetc)		
	g. Revised Transit Schedules/maps	•	
•	h. Bicycle community information		
	i. Others		
	<u> </u>	\$	
3) Inc	ident Management		
. •	a. Construction Zone Enhanced Enforcement		
	Program (COZEEP)	\$	20,000.00
	b. Freeway Service Patrol	\$	
	c. Traffic Management Team		
	d. Helicopter Surveillance	\$	
	e. Traffic Surveillance Stations	-	
	(Loop Detector and CCTV)	\$	
	f. Others	\$	

TMP Data Sheet (cont.)

4) Construction Strategies			
🔀 a. Lane Closure C	hart		
b. Reversible Lan	es		
c. Total Facility C	losure		
d. Contra Flow			
e. Truck Traffic R	estrictions	. \$	
f. Reduced Speed	Zone	\$	
g. Connector and	Ramp Closures		
h. Incentive and I	Disincentive		
🔲 i. Moveable Barri	er	\$	
\overline 🔀 j. Maintain Traffi	c (Flaggers)	\$	
k. Others		\$	
5) Demand Management		*	
a. HOV Lanes/Ra	mps (New or Convert)	\$	
b. Park and Ride	Lots	\$	
c. Rideshare Ince	ntives	\$	
d. Variable Work	Hours		
e. Telecommute			. •
f. Ramp Metering	(Temporary Installation)	\$	
g. Ramp Metering	g (Modify Existing)	\$ 9	
h. Others	· · · · · · · · · · · · · · · · · · ·	\$	
6) Alternate Route Strategies			
·	o Freeway Connector	\$	
	ment (widening, traffic signal etc)	\$	
c. Traffic Control		\$	
d. Parking Restric	•	<u>-Y</u>	•
e. Others		\$	•
7) Other Strategies			· · · · · · · · · · · · · · · · · · ·
a. Application of	New Technology	\$	•
b. Others		\$	
TOTAL ESTIMATED COST O	F TMP ELEMENTS =	\$	40,000.00
*Please note that any change in project sco Sheet request.	ope, schedule, or cost will require res	ubmittal	of TMP Data
PREPARED BY	Louis Wong	DATE	9/13/2011
		•	
APPROVAL RECOMMENDED BY	Shein Lin	DATE	9/13/2011

Attachment G



PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

Project Information

District	County	Route	PM	EA			
04	NAP	29	37.03	3G640K			
Project Title	Project Title						
Bridge Replaceme	nt						
Project Manager	Project Manager Phone #						
Kelly Hirschberg		510.286.4925	510.286.4925				
Project Engineer	•	Phone #	Phone #				
Emarnan Pongpairoj 510.622.5968							
Environmental Of	fice Chief/Manager	Phone #					
Melanie Brent			510.286.5231				
PEAR Preparer Phone #							
Peter Frey 510.622.8835							

Project Description

Purpose and Need

The purpose of this project is to replace a bridge structure that has become structurally deficient and/or functionally obsolete. This bridge has been determined to be scour critical. Furthermore, this structure has of history of settlement. The need is to improve safety.

Description of work

The project is located in Napa County on Route 29, Bridge # 21-0018. The proposed two-span bridge is a voided reinforced concrete slab structure. The length and width would match the existing dimensions. The width accommodates one travel lane in each direction and wide outside shoulders for bus stops in each direction. The bridge rails are proposed to be Type 80SW on both sidewalks (minimum 5').

Alternatives

The build alternative includes the elements described above. The no build alternative leaves the existing facility unchanged.

Anticipated Environmental Approval

CEQA		NEPA			
Environmental Determination					
Statutory Exemption					
Categorical Exemption		Categorical Exclusion	\boxtimes		
Environmental Document					
Initial Study or Focused Initial		Routine Environmental Assessment			
Study with proposed Negative		with proposed Finding of No			
Declaration (ND) or Mitigated ND	\square	Significant Impact			
		Complex Environmental			
		Assessment with proposed Finding			
		of No Significant Impact			
Environmental Impact Report		Environmental Impact Statement			
CEQA Lead Agency (if determined):		,			
The California Department of Transpo	ortatio	on (Caltrans) is the lead CEQA	-		
Agency for the project. FHWA assign	ed, ar	nd Caltrans has assumed, all of the			
United States Department of Transpor	tation	(USDOT) Secretary's			
responsibilities under NEPA.					
Estimated length of time (months) to obtain environmental approval:					
Estimated person hours to complete identified tasks: 2					
_ · · · · · · · · · · · · · · · · · · ·		8			

PEAR Technical Summaries

Community Impacts: The proposed project will not result in adverse impacts on population growth/sprawl, local economy, municipal or community services, utility services, community character, or existing or proposed land use. There are no Title VI issues, adverse impacts to minority and low-income populations expected.

Visual/Aesthetics: The proposed project is not expected to adversely affect any scenic or visual resources.

Cultural Resources: Bridges in Napa County carry a premium: therefore, despite the fact that the bridge has been determined category 5, public interest warrants more in depth public involvement. Additionally, the project is situated within a historical district that may need to be evaluated.

In terms of archaeology, the proposed project is situated in an area is highly sensitive for both historical archaeology and prehistory archaeology. Therefore, an ASR and Extended Phase 1, as well as native American consultation are required.

Water Quality and Storm Water Runoff: This project must comply with the Department Statewide National Pollutant Discharge Elimination System (NPDES) Permit (Order No.: 99-06-DWQ) and the Construction General Permit (Order No.: 2009-0009-DWQ), both issued by the State Water Resources Control Board (SWRCB). Under the auspices of the SWRCB, the San Francisco Bay Regional Water Ouality Control Board (Region 2) has authority to enforce NPDES and Construction General Permit requirements. To comply with these permits, the Department shall consider and incorporate temporary and permanent Best Management Practices (BMPs) using Best Available Technology (BAT) to the Maximum Extent Practicable (MEP), in order to minimize, or prevent, any potential increased impact to existing water quality. Per the Construction General Permit, development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) is required; this shall be prepared per Department Standard Special Provision (SSP) 07-345. The SWPPP is developed by the Contractor, and approved by the Department, prior to commencement of construction. In addition to the general permits mentioned above, it should be anticipated that a 401 Certification, issued by Region 2, will be required.

Hazardous Waste/Materials: The proposed project will require testing of the structure for asbestos. The testing will take place during the design phase.

Air Quality: The Project is exempt from the requirement of air quality conformity determination. An air quality study is not required.

Noise and Vibration: The Project has no traffic noise impacts. A noise study will not be required.

Biological Environment:

Site Description/Habitat:

The bridge is located on SR 29 in Napa County. The surrounding area is highly urban. Areas within the Caltrans right-of-way consist of concrete, native and non-native vegetation. A site visit will be required to further determine specific vegetation and habitat types. The bridge structure may provide habitat for numerous species of birds and bats.

Flora/Fauna:

The U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Game's CNDDB list numerous threatened/endangered species that have the potential to occur in the Calistoga U.S. Geological Survey Quadrangle, which covers the project area. Included in this list are:

Fish

delta smelt (Hypomesus transpacificus)
coho salmon (Oncorhynchus kisutch)
Central California Coastal steelhead (Oncorhynchus mykiss)

Central Valley steelhead (Oncorhynchus mykiss)
California coastal Chinook salmon (Oncorhynchus tshawytscha)
Central Valley spring-run Chinook salmon (Oncorhynchus tshawytscha)
Winter-run Chinook salmon (Oncorhynchus tshawytscha)

Amphibians

California red-legged frog (Rana draytonii)

<u>Birds</u>

Northern spotted owl (Strix occidentalis caurina)

Plants

Clara Hunt's milk-vetch (Astragalus clarianus) Loch Lomond coyote-thistle (Eryngium constancei) Calistoga allocarya (Plagiobothrys strictus) Napa bluegrass (Poa napensis)

The Federal Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), Title 50 Code of Federal Regulations part 10, and California Fish and Game Code Sections 3503, 3513, and 3800 protect migratory birds, occupied nests and their eggs. Birds nest in a variety of places which include trees, shrubs, bridges, and other man-made structures on the ground. Numerous species of bats also use bridges for roosting habitat. Many of these bats are Species of Special Concern. A site assessment will need to be conducted to determine if this structure or the surrounding habitat are being used by birds and bats as roosting habitat.

Waters/Wetlands:

Wetlands and waters are expected to occur in the project vicinity after initial reviews of aerial imagery. This will need to be confirmed with a site visit and wetland delineation. Since the project is to replace a bridge it is likely that there will be impacts to waters and wetlands due to pile driving and construction access. If any waters or wetlands occur in the project area they should be avoided and designated as Environmentally Sensitive Areas (ESA).

Permits:

It is likely that a 1602 Streambed Alteration Agreement from the California Department of Fish and Game, 404 Nation-wide permit from the Army Corps of Engineers may be required. Additionally, this project may require formal consultation with the USFWS and the National Oceanic and Atmospheric Administration (NOAA) regarding threatened and endangered species likely present within the footprint of this project, pile driving associated with construction of the new bridge, and fish passage barriers that may be associated with this project. A site assessment and a complete project description, and detailed plans showing staging and access will be needed to confirm this.

Schedule:

If threatened or endangered species or their habitat is present within the footprint of the replacement project there may be work windows during construction of the replacement project. If construction work is scheduled during the bird nesting season (February 1st-August 31st) then a pre-construction survey for nesting birds must occur. If birds are present at the bridge structure and work is scheduled during the bird nesting season a bird control plan must be completed prior to the start of construction.

Mitigation:

A species/habitat assessment and wetland delineation must be completed before a conclusion can be made in regards to mitigation.

Please allow the Office of Biological Sciences and Permits the opportunity to review project plans as they progress. All design changes will require reassessment of biological resources and may delay the project. Please forward all plans to the Office of Biological Sciences and Permits as soon as possible. If you should have any questions, or require clarification please contact Abdullah Arakozie at (510) 719-7493.

Context Sensitive Solutions: Context sensitive solutions meet transportation goals in harmony with community goals and natural environments. They require careful, imaginative, and early planning and continuous community involvement. There were no early planning activities and community involvement efforts that were undertaken during this initial phase of project development. The project, by its nature is not expected to conflict in harmony with community goals and the natural environment.

Disclaimer-

This Preliminary Environmental Analysis Report (PEAR) provides information to support programming of the proposed project. It is not an environmental determination or document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in the Project Study Report (PSR). The estimates and conclusions in the PEAR are approximate and are based on cursory analyses of probable effects. A reevaluation of the PEAR will be needed for changes in project scope or alternatives, or in environmental laws, regulations, or guidelines.

36690K

Review and Approval

I confirm that environmental cost, scope, and schedule have been satisfactorily completed and that the PEAR meets all Caltrans requirements. Also, if the project is scoped as a routine EA, complex EA, or EIS, I verify that the HO DEA Coordinator has concurred in the Class of Action.

Environmental Branch Chief

Date: 9/16/2011

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REQUIRED ATTACHMENTS:

Attachment A: Environmental Technical Reports or Studies Required Attachment B: PEAR Mitigation and Compliance Cost Estimate

Attachment A: Environmental Technical Reports or Studies Required

	Study or Report	Document Text Only	Not Anticipated
Community Impact Study Farmland Section 4(f) Evaluation Visual Resources Water Quality Floodplain Evaluation Noise Study Air Quality Study Paleontology Wild and Scenic River Consistency Cumulative Impacts Growth Inducing/Indirect Impacts Cultural			
Archaeological Survey Report (ASR) Historic Resources	× ⊠		□ ⊠
Evaluation Report (HRER) Historic Property Survey Report (HPSR) Historical Resource Compliance Report SHPO / PRC 5024.5 Native American Coordination Other Finding of Effect: Extended Phase 1: Data Recovery Plan: Memorandum of Agreement* (*if Federal Permit is required)			
Hazardous Waste ISA (Additional) PSI Other			⊠□□
Biological	_		_
Endangered Species (Federal) Endangered Species (State) Species of Concern	X X X		
(CNPS, USFS, BLM, S, F) Biological Opinion			
(USFWS, NMFS, State) Fish Passage Barriers Assessment Wetlands Invasive Species Natural Environment Study NEPA 404 Coordination Other	X X X X L		

Permits			
401 Permit Coordination	. 🗵		
404 Permit Coordination	\boxtimes		
1602 Permit Coordination	X		
City/County Coastal Permit Coordination			X
State Coastal Permit Coordination			X
NPDES Permit (402) Coordination	\boxtimes		
US Coast Guard (Section 10)	IXI	П	

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Attachement B: PEAR Mitigation and Compliance Cost Estimate*

District 04 Co	unty NAP Route 29	-PM 37.03	EA .3G640K
Description of Wor	k Bridge Deck Replacement		
Project Manager	Patrick Pang	Date	
Prepared by	Peter Frey	Date	

	Mitigation			Compliance	
	Project	Enviro.	Statutory	Permit &	
	Feature ¹	Obligation ²	Require.3	Agreement ⁴	
Fish & Game 1602 Agreement					
Coastal Development Permit					
State Lands Agreement					
NPDES Permit	_				
COE 404 Permit- Nationwide	•	•			
COE 404 Permit-Individual					
COE Section 10 Permit					
COE Section 9 Permit					
Other:	ļ ,				
			,		
Noise attenuation					
Special landscaping					
Archaeological					
Biological	_		·		
Wetland/riparian					
Historical				-	
Scenic resources					
Asbestos Testing/Mitigation					
Other:					
TOTAL (Enter zeros if no cost)	TBD	TBD	TBD	TBD	

Costs are to include all costs to complete the commitment including: 1) capital outlay and staff support; 2) cost of right-of-way or easements; 3) long-term monitoring and reporting; and 4) any follow-up maintenance.

¹ Mitigation that Caltrans would normally do if not required by a permit or environmental agreement.

² Mitigation that Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

³ Mitigation that Caltrans would not normally do and is not required by a permit or Enviro. Agreement, but is required

by a law.

4 Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

^{*}Prepare a separate form for each practicable alternative in the PSR.

Attachment H

Dist-County-R	Route: 0	4-NAPA-029	
Post Mile Limits: 37.03			
Project Type: Bridge Replacement			
Project ID (or			
Program Iden		•	
1 Togram Idol			
Phase:	\boxtimes	PID ·	
<i>Cultrans</i> °		PA/ED	
• •	П	PS&E	•
Regional Water Quality Control Board(s): San Francis	sco Ba	y RWQCB (R-2)	
Is the Project required to consider Treatment BMPs?		Yes 🛛	No □
If yes, can Treatment BMPs be incorporated the project?	into	Yes	No 🗵
If No, a Technical Data Report mus	st be su		
at least 30 days prior to the project	ts RTL	date. List	t RTL Date: <u>11/1/2015</u>
Total Disturbed Soil Area: 0.2 ac Ris	sk Leve	l: <u>2</u>	•
Estimated: Construction Start Date: 5/1/2016	Co	nstruction Completion	n Date: 5/1/2018
Notification of Construction (NOC) Date to be submitte		•	
	Yes	Data	No ⊠
Erosivity Waiver		Date:	NO 🖂
Notification of ADL reuse (if Yes, provide date)	Yes	Date: <u>TBD</u>	No [
Separate Dewatering Permit (if yes, permit number)	Yes	Permit # TBD	No. 🗆
This Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests			
to the technical information contained herein and the date upon which recommendations, conclusions, and			
decisions are based. Professional Engineer or Landscape	e Arcillic	ect stamp required at	POOLE.
I WHAT CO		· · ·	9/15///
Émarnan Pongpairoj, Registered Project Engineer/Lar			/ Date
I have reviewed the stormwater quality design issues and	d find th	is report to be comple	te, current and accurate:
Colly Hysches	-		9/15/2011
Kelly Hirschberg, Project Managel	۲		Date
Lobert D. Bruga	Dans	tothio	1/12 ZOII
Bob Braga, Designated Mainternan	ce Repr	esentative	Digite
for David Yam, Designated Landscape Architect Representative Date			
Million I all besignated Earluscape	۱۱۱۱۰ الله م		ra/15/20/1
[Stamp Required Norman Gonsalves/Regional Desig	n SW Co	ordinator or Designee	Date
for PS&E only)			, , ,

H

Caltrans Storm Water Quality Handbooks Project Planning and Design Guide July 2010